



## TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

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### Project: Jones Creek Road—Segment 3 (Coursey Boulevard to South Harrell’s Ferry Road)

Green Light Program ID: E  
 Project Length (feet): 6,810  
 Existing Typical Section: Two-lane asphalt roadway with open ditch drainage adjacent to pavement.  
 Proposed Typical Section: Four-lane curb & gutter boulevard with sidewalks.

### Project Overview

This project will widen Jones Creek Road to provide two through lanes in each direction, sidewalks and raised median. It will also require a new bridge crossing and realignment at Jones Creek. When combined with other projects in the Plan, it will provide an improved north-south connection extending from Nicholson Drive to Hooper Road.

### TABLE OF CONTENTS

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Assumptions	1	
Utilities	1	
Hydrology / Hydraulics	1	In association with:
Traffic	1	PBS&J
Signalized Intersections	2	GOTECH, Inc.
Right of Way Impacts	2	Neel-Schaffer, Inc.
Environmental Concerns	2	Compliance Consultants, Inc.
Soils	2	Jones Walker, LLP
Cost Estimate	3	John C. Doiron MAI Appraisal Services
Project Schedule	4	Rampart Resources
Exhibit A—Typical Sections	5	SSA Consultants, LLC
Exhibit B—Layout Sheets	6	



**ASSUMPTIONS**

- Alignment will be shifted to the west at the Jones Creek bridge crossing. This shift will straighten the road and avoid potential environmental issues related to the pond on the east side of the roadway (north side of Jones Creek). To the north of the bridge, the roadway will shift to the east of the existing alignment to avoid structures. The new roadway will tie back into the present alignment approximately 500' north of Mary Louise Avenue.
- A water line metering station on the west side of the roadway, just north of the Jones Creek crossing, will require relocation. This metering station is composed of valves, meters and telemetry equipment.

**UTILITIES**

Possible Utilities	Existing	Adjust / Relocate
Underground Electric		
Overhead Electric	●	●
Overhead Electric Transmission	●	●
Water	●	●
Sanitary Sewer	●	●
Telephone	●	●
CATV	●	●
Gas Distribution	●	●
Gas HP Pipeline		

**HYDROLOGY / HYDRAULICS**

- Existing bridge at Jones Creek will be replaced by a new 200' long structure. Four 50' spans with a low chord elevation of 36'.

**TRAFFIC**

- Projected Average Daily Traffic (ADT) for year 2030 is 40,164 vehicles. The proposed project will provide a Level Of Service (LOS) D for year 2030.



**SIGNALIZED INTERSECTIONS**

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- Signalization modifications required at Coursey Blvd.
- Additional turn lanes are proposed for the intersections at each end of the project.
- Additional turn lanes for westbound George O'Neal Road and northbound Jones Creek Road (at the Coursey/Jones Creek intersection) are not included in this project. These improvements are being constructed under a Phase II (2002) project.

**RIGHT OF WAY IMPACTS**

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- The apparent existing right of way is 60' wide. The required right of way width for the project is 100'.

**ENVIRONMENTAL CONCERNS**

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- Two acres of wetlands in the open ditches will be impacted.
- Potential Phase I environmental impact and wetland issues related to the SpeeDee Oil Change facility. The project Alignment will be shifted to avoid this location..
- Encroachment on the cemetery at the S. Harrell's Ferry intersection will be avoided.
- Four churches are located on the roadway, but current setbacks will minimize impact.

**SOILS**

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- The predominant soils for this project area are silty loams.



**COST ESTIMATE**

Project Description:	Four-lane curb & gutter boulevard with sidewalks		
Project Length:	6810 Feet (1.29 miles)		
	CONSTRUCTION COST		
Section 200 -	Earthwork	\$	550,126
Section 300 -	Base and Subbase Courses	\$	1,055,120
Section 400 -	Surface Courses	\$	-
Section 500 -	Pavements	\$	2,567,700
Section 600 -	Structures	\$	1,008,000
Section 700 -	Drainage Work	\$	1,443,760
Section 800 -	Sanitary Sewer Work	\$	527,000
Section 905 - 906	Pavement Markings & Signalization	\$	699,870
Section 907 - 911	Concrete Curbs & Sidewalks	\$	708,240
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$	8,559,816
MOBILIZATION		\$	684,785
	SUBTOTAL	\$	9,244,601
CONTINGENCY & UNFORESEEN CONDITIONS		\$	1,848,920
	SUBTOTAL	\$	11,093,522
	TOTAL CONSTRUCTION COST (2006 \$)	\$	11,093,522
UTILITY RELOCATIONS		\$	673,020
TESTING		\$	277,338
LIGHTING, LANDSCAPING, SEEDING		\$	443,741
ENVIRONMENTAL STUDY		\$	170,000
ENGINEERING		\$	1,109,352
ENVIRONMENTAL MITIGATION		\$	60,000
RIGHT-OF-WAY		\$	6,676,926
	SUBTOTAL	\$	20,503,899
PROGRAM & CONSTRUCTION MANAGEMENT		\$	1,025,195
	TOTAL PROJECT COST (2006 \$)	\$	21,529,094

Comments:

- Unit costs are assumed to include contractor overhead, profit and mark-ups
- Environmental mitigation will include environmental and protection of cultural resources
- Mobilization is expected to be 8% of construction cost
- Contingency and Unforeseen Conditions are expected to be 20% of construction cost
- Testing is expected to be 2.5% of construction cost
- Lighting, Landscaping, and Seeding is expected to be 4% of construction cost
- Note: Percent Cost is for the GLP Program Average and NOT project specific obligation
- Engineering is expected to be 10% of construction cost
- Program & Construction Management is expected to be 5% of project costs

